

NSLS OHSAS Facility Risk Assessment

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Name(s) of Risk Team Members: Reviewed by OHSAS Committee		Point Value → Parameter ↓	1	2	3	4	5
Area/Facility Description Title: General Chemical Hazards Area/Facility # (if applicable): LS-FRA-0001		Occupancy or Use	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
		Severity	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Area/Facility Description: General Chemical Hazards throughout the NSLS complex, including labs and gas cylinder storage areas.		Likelihood	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
		Approved by: W. R. Casey Date: 9/13/05 Rev.#: 1 Revision Log					
Reason for Revision (if applicable):					Comments:		

Physical Item or Activity	Hazard(s)	Before Controls				Initial Controls	After Initial Controls				Control(s) Added to Reduce Risk	After Additional Controls				% Risk Reduction
		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC		Occupancy A	Severity B	Likelihood C	Risk* AxBxC	
Stored gas cylinders	Fire or explosion due to ignition of flammable gas release.	3	5	3	45	Cylinder certification, proper separation of flammables and oxidizers, cylinders capped and secured, Tier I inspection, storage area well maintained, outdoor storage (good ventilation)	3	5	2	30						
	Being struck by an object due to pressure release.	3	5	3	45		3	5	2	30						
	Exposure to release of toxic substances.	3	4	2	24		3	4	1	12						

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		Before Controls					After Initial Controls					After Additional Controls				
Physical Item or Activity	Hazard(s)	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Initial Controls	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
Stored containers of hazardous materials	Spill due to container failure may result in explosion or fire from flammable/combustible materials coming in contact with an ignition source or chemical reaction	3	4	2	24	Segregation of incompatibles, chemical storage cabinets, work planning/experimental review, ventilation, secondary containment, spill response, use of safer substitutes, Tier 1 inspections, container labeling, area posting, peroxide forming compound testing, containers specific for the hazard and operation, applicable subject areas	3	4	1	12						
Stored containers of hazardous materials	Spill due to container failure may result in exposure to toxic materials or corrosive splash	3	3	4	36	Chemical storage cabinets, work planning/experimental review, ventilation, secondary containment, use of safer substitutes, Tier 1 inspections, container labeling, area posting, peroxide forming compound testing, containers specific for the hazard and operation, applicable subject areas	3	3	3	27						
Being near others mixing and reacting hazardous materials	Exposure to toxic materials including inhalation, absorption, ingestion and injection	3	4	3	36	Work planning/experimental review, use of small volumes, fume hood, use of safer substitutes, container labeling, area posting, applicable subject areas, area monitoring	3	4	2	24						
	Fire or explosion due to ignition of flammable vapors/exothermic reaction	3	4	2	24		3	4	1	12						

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		Before Controls					After Initial Controls					After Additional Controls				
Physical Item or Activity	Hazard(s)	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Initial Controls	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
Near containers being moved around a lab work area or the building	Spill with fire	3	4	3	36	Spill response, secondary containment, proper labeling, training, work planning-experimental review	3	4	2	24						
	Spill with inhalation exposure	3	4	3	36		3	4	2	24						
	Spill with direct contact exposure	3	4	2	24		3	4	1	12						
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20 Negligible	21 to 40 Acceptable				41 to 60 Moderate				61 to 80 Substantial				81 or greater Intolerable		